Akt(Ab-473) Antibody

Catalog No: #21054

Package Size: #21054-1 50ul #21054-2 100ul #21054-4 25ul



Overview

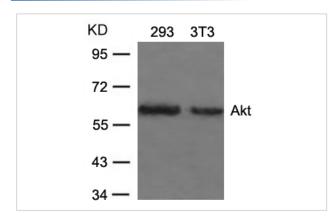
Product Name	Akt(Ab-473) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	Akt
Alternative Names	AKT; C-AKT; PKB; PKB-alpha; RAC

Application Details

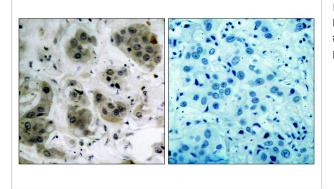
Predicted MW: 60kd

Western blotting: 1:500~1:1000
Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from 293 and 3T3 cells using Akt(Ab-473) Antibody #21054.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Akt(Ab-473) Antibody #21054(left) or the same antibody preincubated with blocking peptide(right).

Descriptions

Immunogen	Peptide sequence around aa. 471~475 (Q-F-S-Y-S) derived from Human Akt.
Specificity	The antibody detects endogenous level of total Akt protein.
Purifiction	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.
Accession NO.	Swiss-Prot: P31749NCBI Protein: NP_001014431.1

Related Information

General protein kinase capable of phosphorylating several known proteins. Phosphorylates TBC1D4. Signals downstream of phosphatidylinositol 3-kinase (Pl3K) to mediate the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). Plays a role in glucose transport by mediating insulin-induced translocation of the GLUT4 glucose transporter to the cell surface. Mediates the antiapoptotic effects of IGF-I. Mediates insulin-stimulated protein synthesis by phosphorylating TSC2 at 'Ser-939' and 'Thr-1462', thereby activating mTORC1 signaling and leading to both phosphorylation of 4E-BP1 and in activation of RPS6KB1. Promotes glycogen synthesis by mediating the insulin-induced activation of glycogen synthase.

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Ayala G, et al. (2004) Clin Cancer Res; 10(19): 6572-8.

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Jing Zhang, Osamu Yamada, Yoshihisa Matsushita el at., Transactivation of human osteopontin promoter by human T-cell leukemia virus type 1-encoded Tax protein., Leukemia Research, 34(6):763-768(2009)

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Massimo Nabissi, Maria Beatrice Morelli1, Consuelo Amantini el at., TRPV2 channel negatively controls glioma cell proliferation and resistance to Fas-induced apoptosis in ERK-dependent manner., Carcinogenesis, 31(5):794-803(2010)

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Nan Li, Xiaodong Bu, Peng Wu el at., The B'B B'B HER2B"CPI3K/AktB"CFASN AxisB'B—B'B— Regulated Malignant Phenotype of Colorectal Cancer Cells., Lipids, 47:403B"C411(2012)

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Song Chen, Hedeel Guy Evans, David R el at., FAM129B/MINERVA, a Novel Adherens Junction-associated Protein, Suppresses Apoptosis in HeLa Cells, J. Biol. Chem., 286(12):10201-10209(2011)

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Ze-yang Ding, Guan-nan Jin, Hui-fang Liang el at., Transforming growth factor B¦F induces expression of connective tissue growth factor in hepatic progenitor cells through Smad independent signaling., Cellular Signalling., 25(10):1981B°C1992(2013)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.			